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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/601,242	06/20/2003	Phillip Dan Cook	ISIS-5213	6684	
32650 7	7590 08/09/2006	08/09/2006		EXAMINER	
WOODCOCK WASHBURN LLP			EPPS FORD, JANET L		
ONE LIBERTY PLACE - 46TH FLOOR PHILADELPHIA, PA 19103			ART UNIT	PAPER NUMBER	
			1633		
			DATE MAILED: 08/09/2006	DATE MAILED: 08/09/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commence	10/601,242	COOK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Janet L. Epps-Ford	1633				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 22 Ma	av 2006					
2a) ☐ This action is FINAL . 2b) ☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>44</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>44</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement					
o) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ite				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5-22-06	5) Notice of Informal P. 6) Other:	atent Application (PTO-152)				

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DETAILED ACTION

1. Claims 1-43 and 45-68 were cancelled. Claim 44 was amended and is presently under examination.

Response to Arguments

Claim Rejections - 35 USC § 112

2. The rejection of claims 44, 47, and 49-68 under 35 U.S.C. 112, first paragraph, is withdrawn in view of Applicant's cancellation of claims 47 and 49-68 and the amendment to claim 44 communication filed 5-22-06.

Claim Rejections - 35 USC § 102

- 3. The rejection of Claims 59, and 63-68 under 35 U.S.C. 102(b) as being anticipated by Sarin et al. is withdrawn in response to Applicant's cancellation of these claims.
- 4. The rejection of claims 59, and 63-66 under 35 U.S.C. 102(a) as being anticipated by Saison-Behmoaras et al. is withdrawn in response to Applicant's cancellation of these claims.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422

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F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claim 44 is rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 6 of U.S. Patent No. 5,623,065. Although the conflicting claims are not identical, they are not patentably distinct from each other because the scope of instant claim 44 is anticipated by an embodiment of issued claim 6. Issued claim 6 recites compounds that are limited in regards to sequence, specifically SEQ ID NO: 1-6, however the instant claim is not limited to any particular sequence structure. Moreover, issued claim 6 recites a compound comprising at least two regions, wherein the first region is selected from a group including a-nucleosides linked by charged 3'-5' linkages or 4'-thionucleosides linked by charged 3'-5' phosphorous linkages. Additionally, the second region of the compounds of issued claim 6 consists of 2'-deoxy-erythro-pentofuranosyl β nucleosides linked by charged 3'-5' phosphorous linkages. Thus, scope of the first region and second of instant claim 44 comprises an expressly stated obvious alternative embodiment of the first region and second regions of the compounds encompassed by the issued claim.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 8. Claim 44 is rejected under 35 U.S.C. 102(a) as being anticipated by Cook et al. (WO 91/10671 A1; see IDS filed 5-22-06).

Cook et al. the following compound on page 163, line 33: 5'-Gaa-GTC-aCT-GgaaCG-3', wherein a is a 2'-deoxy- α -D-adenosine nucleoside. This compound comprises a region of α -nucleosides and a region of β -deoxynucleosides synthesized by solid phase DNA synthesis from 5'-DMT-3'- β -cyanoethyldiisopropyl-phosphoramidite protected deoxynucleosides. This compound is interpreted as meeting all the limitations of the claimed compound, to the extent that it comprises two regions, a region comprising α -nucleosides, and a region comprising 2'-deoxyerythropentofuranosyl- β -nucleosides.

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claim 44 is rejected under 35 U.S.C. 102(b) as being anticipated by Connolly et al.

Connolly et al. discloses the oligonucleotide sequence: 5'GACGATATCGTC3' wherein thymidine residues were substituted with 4-thiothymidine. This sequence comprises a combination of multiple thymine analogs, and a plurality of 2'-deoxy-erythropentofuranosyl β-nucleosides.

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Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). Additionally, Applicant's submission of an information disclosure statement under 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p) on 5-22-06 prompted the new ground(s) of rejection presented in this Office action.

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janet L. Epps-Ford whose telephone number is 571-272-0757. The examiner can normally be reached on M-F, 10:00 AM through 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave T. Nguyen can be reached on 571-272-0731. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

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